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09/222,340	12/28/1998	WILLIAM F. TERRELL	82771.P279	3304
8791	7590 11/18/2002			
BLAKELY SOKOLOFF TAYLOR & ZAFMAN			EXAMINER	
	HIRE BOULEVARD, SEV .ES, CA 90025	ENTH FLOOR	VAUGHN JR, WILLIAM C	
			ART UNIT	PAPER NUMBER
			2142	

DATE MAILED: 11/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/222,340	TERRELL ET AL.				
Office Action Summary	Examiner	Art Unit				
	William C. Vaughn, Jr.	2142				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 04 S	September 2002 .					
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.					
3) Since this application is in condition for allowa closed in accordance with the practice under						
Disposition of Claims						
4) Claim(s) 1-14 and 16-26 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14 and 16-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers	_					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120	difficition.					
	n priority under 25 11 C.C. & 110/a	(d) or (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:	s have been received					
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119(e) (to a provisional application).				
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

1. This Action is in response to the CPA and Amendment received 04 September 2002.

Continued Prosecution Application

2. The request filed on 04 September 2002 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/222,340 is acceptable and a CPA has been established. An action on the CPA follows.

Information Disclosure Statement

- 3. The references listed in the Information Disclosure Statement submitted on 11 October 2002, have been considered by the examiner (see attached PTO-1449).
- 4. The application has been examined. Claims 1-14 and 16-26 are pending. Examiner acknowledges the cancellation of claim 15. The objection and rejections are as stated below:

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 6. Claims 1-14, 17, 18, and 20-26 are rejected under 35 U.S.C. 102(a) as being anticipated by Barzilai, et al. (Barzilai), "Design and Implementation of an RSVP-Based Quality of Service Architecture for an Integrated Services Internet", 1998.
- 7. Regarding claim 1, Barzilai discloses an apparatus adapted to facilitate communications between a client device and a remote device, comprising a network interface including (i) filters to control access to different service levels and (ii) a classifier, communicatively coupled to the

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filters, to classify and mark one of the service levels associated with a received data packet in response to satisfying filter criteria associated with at least one filter (Barzilai teaches that as data packets traverses through the protocol stack, the session handle carried in the buffer header is used as the classifier for session-specific handling of the packet through the use of the QOS manager), [see Barzilai, page 398, 1st column, 1st-3rd paragraph and page 411, 2nd column, 1st paragraph-3rd paragraph]; and a controller coupled to the network interface, to dynamically create and remove the filters controlling access to the different service levels based, at least in part, on an admissions profile (Barzilai teaches the QOS manager functions a control plane component primarily responsible for the creation, modification, and removal of reservation filters associated with different flows as well as admission control), [see Barzilai, page 400, 2nd column, 4th paragraph]. By this rationale claim 1 is rejected.

- 8. Regarding claim 2, Barzilai further discloses wherein the at least one filter, when triggered, initiate an admission control decision preventing allocation of service level resources which are not yet required or authorized [see Barzilai, page 410, 2nd paragraph]. By this rationale claim 2 is rejected.
- 9. Regarding claim 3, Barzilai further discloses wherein each filter is triggered by information contained within received the data packet (Barzilai teaches that the address is used during data transfer to efficiently identify the reservation structure to use for policing and shaping traffic on a particular data socket), [see Barzilai, Page 404, 1st Col., 2nd paragraph]. By this rationale claim 3 is rejected.

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- Regarding claim 4, Barzilai further discloses wherein each filter is triggered by one or 10. both of packet source information and packet destination information [see rejection of claim 3, supra]. By this rationale claim 4 is rejected.
- Regarding claim 5, Barzilai further discloses wherein the admission profile is stored in a 11. communicatively coupled remote device [see rejection of claim 1, supra]. By this rationale claim 5 is rejected.
- 12. Regarding claim 6, Barzilai further discloses wherein the communicatively coupled remote device is a bandwidth broker or other generic policy server [see Barzilai, page 397, 2nd column, 2nd paragraph and page 398, 1st column, 2nd paragraph]. By this rationale claim 6 is rejected.
- Regarding claim 7, Barzilai further discloses wherein the admission profile is available 13. locally within the apparatus [see rejection of claim 5, supra]. By this rationale claim 7 is rejected.
- 14. Regarding claim 8, Barzilai further discloses wherein the controller establishes an ingress profile in response to detecting an associated trigger event, wherein the ingress profile modifies the received data packet adhering to the filter criteria to denote a particular service level, in accordance with the admissions profile [see rejection of claim 1, supra]. By this rationale claim 8 is rejected.
- 15. Regarding claim 9, Barzilai further discloses wherein the controller removes ingress profiles when data packet adhering to the filter criteria are no longer received, liberating apparatus resources [see Barzilai, page 406, 2nd column, 4th paragraph]. By this rationale claim 9 is rejected.

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- Regarding claim 10, Barzilai further discloses wherein the controller removes ingress profiles after a predetermined period of time, liberating apparatus resources [Barzilai, page 410, 1st column, 1st paragraph-3rd paragraph]. By this rationale claim 10 is rejected.
- 17. Regarding claim 11, Barzilai further discloses wherein the controller removes at least one of the filters in accordance with a network administration policy [see Barzilai, page 410, 1st column, paragraph 1, Figure 9]. By this rationale claim 11 is rejected.
- 18. Regarding claim 12, Barzilai further discloses wherein the controller removes at least one of the filters based, at least in part, on time-of-day [see rejection of claim 11, supra]. By this rationale claim 12 is rejected.
- 19. Regarding claim 13, further discloses a method for controlling provisions of differentiated services in a data network [see Barzilai, abstract], the method comprising (a) installing a filter on a network edge device to provide a trigger notification upon detecting data packets adhering to filter criteria, [see rejection of claim 1, supra] (b) determining whether a received data packet satisfies the filter criteria [see rejection of claim 1, supra]; and (c) issuing a command by a bandwidth broker to a controller of the network edge device to dynamically install or remove a filter in response to determining whether the received data packets satisfies the filter criteria [see rejection of claim 1, supra]. By this rationale claim 13 is rejected.
- 20. Regarding claim 14, Barzilai further discloses (d) marking the received data packets adhering to the filter criteria according to a subscribed service level (Barzilai teaches that the QOS manager tags the data path with a session handle to enable handling of data packets commensurate with their service requirements), [see Barzilai, page 398, 1st column, 1st paragraph]. By this rationale claim 14 is rejected.

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21. Regarding claim 17, Barzilai further discloses (e) identifying and marking the received data packets with routing information in accordance with the subscribed service level [see rejection of claim 14, supra]. By this rationale claim 17 is rejected.

- 22. Regarding claim 18, Barzilai further discloses (f) placing the data packets in a proper format for transmission (Barzilai teaches TCP formats packets into a acceptable form for transmission to the network), [see Barzilai, page 407, 2nd column, 2nd paragraph]. By this rationale claim 18 is rejected.
- 23. Regarding claim 20, Barzilai further discloses wherein the controller further dynamically controls access to at least one classifier profile in accordance with the admission profile [see rejection of claim 1, supra]. By this rationale claim 20 is rejected.
- 24. Regarding claim 21, Barzilai further discloses an apparatus adapted to facilitate communications between a client device and a remote device [see rejection of claim 1, supra], comprising: filter means for controlling access to different service levels [see rejection of claim 1, supra]; means for classifying and marking one of the service levels associated with the received data packet in response to satisfying filter criteria associates with the filter means [see rejection of claim 1, supra]; and control means for dynamically creating and removing a portion of the filter means based at least in part on an admission profile [see rejection of claim 1, supra]. By this rationale claim 21 is rejected.
- 25. Regarding claim 22, Barzilai further discloses wherein the admissions profile is stored in a communicatively coupled remote device [see rejection of claim 5, supra]. By this rationale claim 22 is rejected.

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Regarding claim 23, Barzilai further discloses wherein the communicatively coupled remote device is a bandwidth broker or other generic policy server [see rejection of claim 6, supra]. By this rationale claim 23 is rejected.

- 27. Regarding claim 24, Barzilai further discloses wherein the filter means comprises a plurality of filters [see rejection of claim 1, supra]. By this rationale claim 24 is rejected.
- 28. Regarding claim 25, Barzilai further discloses wherein the control means removes at least one of the filters in accordance with a network administration policy [see rejection of claim 11, supra]. By this rationale claim 25 is rejected.
- 29. Regarding claim 26, Barzilai further discloses wherein the control means removes at least one of the filters based, at least in part, on time-of-day [see rejection of claim 12, supra]. By this rationale claim 26 is rejected.

Claim Rejections - 35 USC § 103

- 30. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 31. Claims 16 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barzilai in view of what was well known to the ordinary artisan in the networking art at the time the invention was made.
- 32. Regarding claim 16, Barzilai teaches the invention substantially as claimed. Barzilai further discloses wherein the marking of the received data packet includes setting a logic value of a bit in a Type of Service (ToS) field of a header of the data packet (The Examiner takes

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Official Notice that it was well known and widely implemented in the networking art at the time the invention was made for the markings of a data packet to include logic value of a bit in a ToS field of a data packet, since it is a known standard for an IP packet header to include that particular field and thus since Barzilai does state that the environment in which the invention can be used is TCP/IP. By this rationale **claim 16** is rejected.

33. Regarding claim 19, Barzilai further discloses wherein the classifier marks a Type of Service (ToS) field of the received data packet to denote a level of service for transmission of the data packet [see rejection of claim 16, supra]. By this rationale claim 19 is rejected.

Claim Rejections - 35 USC § 102

- 34. Claims 1-14 and 16-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Wittig et al., (Wittig), "Network Layer Scaling: Congestion Control in Multimedia Communication with Heterogeneous Networks and Receivers", Copyright 1994.
- Regarding independent claims 1, 13, and 21, (e.g., exemplary independent claim 1),
 Witting discloses an apparatus adapted to facilitate communications between a client device and a remote device [see Wittig, Figure 3, sender, router, and target], comprising a network interface including (i) filters to control access to different service levels and (ii) a classifier, communicatively coupled to the filters, to classify and mark one of the service levels associated with a received data packet in response to satisfying filter criteria associated with at least one filter [see Wittig, page 275 and page 283, section 5]; and a controller coupled to the network interface, to dynamically create and remove the filters controlling access to the different service levels based, at least in part, on an admissions profile (Witting teaches that filters can be

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changed in the stream setup phase as well as dynamically at run time), [see Witting, page 280, 4th paragraph]. By this rationale claim 1 is rejected.

36. With regards to dependent claims 2-12, 14 and 16-20, 22-26, the limitations of these claims are taught within the figures of Witting.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Vaughn, Jr. whose telephone number is (703) 306-9129. The examiner can normally be reached on 8:00-5:00, 1st Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for TC2100 Official communications and (703) 746-7238 for TC2100 After Final communications and (703) 746-7240 for TC2100 Customer Service and Draft Fax. The Customer Service Office number is (703) 306-5631.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9700.

WCV

Patent Examiner Art Unit 2142

November 14, 2002

MARK H. RINEHART
SUPERVISORY PATENT EXAMINER
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